JS-1000 Product Specifications

Testing frequency ranges: 2.4 – 3.25 Gb and 9 - 13 Gb

Jitter Generation measurements with low system intrinsic rms jitter of < 50   UI with
+/- 0.2 dB repeatability

Measure jitter transfer characteristics with 0.005 dB resolution, +/- 0.01 dB accuracy to 10 MHz modulation bandwidth, and with +/- 0.2 dB accuracy of roll-off to -20 dB, +/- .4 dB accuracy of roll-off to -40 dB

For Jitter Tolerance measurements provide 80 MHz bandwidth of intentional jitter to
+/- 0.5 dB accuracy (5%).

Intentional modulation:

Compliance specifications require intentional sinusoidal jitter to be applied to the system clock for jitter transfer and jitter tolerance tests. The table below indicates the level of intentional jitter required (columns 1 and 2) and the maximum capability of this system (columns 1 and 3). Having more intentional jitter available - beyond compliance requirements - allows you to stress your components more to find out what operation margin the component actually has.

Modulation Rate	ITU-T 0.172 Requirements	JS-1000 Limits
5-80 MHz	0.2 UI pp	0.5 UI pp
4 MHz	0.2 UI pp	0.625 UI pp
400 kHz	2.0 UI pp	6.25UI pp
10 kHz	2 UI pp	500 UI pp
10 Hz	3,200 UI pp	500,000 UI pp